

Overall Information

Table1- Overall Information			
Vehicle plate number	78524		
CPK data logger number	LN: 001443, DN: 1930,Sim +989218786219		
Bus line	Number 4 (south to north Bus line)		
Bus Terminals	Tehran South Bus Terminal - Park Way Bus Terminal		
Total path distance	22.8 km		
DPF producer company	PURItech (Passive system with FBC)		
Installation date	28/Jan/2015		
Report period	16/Jul/2016 – 31/Jul/2016 (sixteen days)		
K value	-		
K value	-		

Table 2- DPF Maintenance History

	DPF core was removed on Jul 22 nd and was
Filter maintenance date	cleaned on Aug 12 th for the first time.
	Considering system relatively high backpressure,
	filter isolation defect and air filter's deformation,
	DPF core was removed on Sep 16 th and installed
	on Nov 17 th .
	The third cleaning was unavoidable after only 6
	days working and was done on 29 th Nov. System
	only worked for two days and DPF was replaced
	by muffler on Nov 30 th .
	DPF was installed for the fourth time on
	Jan/19/2016 and was replaced by muffler after
	only three days working because of high
	backpressure.
	A new DPF core was installed on May/14/2016
	and was cleaned on Jun/25/2016.
	The DPF core was replaced by muffler on
	Jul/10/2016 due to high backpressure.
Dosing status	Dosing value has been kept constant from
Bosing status	installation date until now.

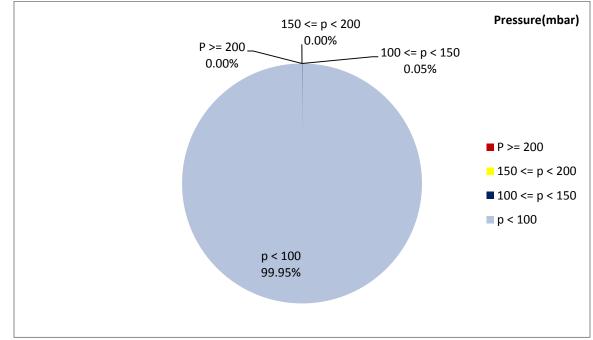


Date:	03/Aug/2016
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Bus mileage (from DPF installation date)	99534 km			
Bus mileage over the period	3694 km			
Working days over the period	16 days			
Stop days	0 day			
Data logger working days	16 days			
Working hours over the period	217 hours 21 minutes			
Average working hours per day (including stop days)	13 hours 35 minutes			
Bus average speed	17 km/hr			
idle speed time to all working time ration	21.14 %			
Total Bus fuel consumption over the period	2143 lit			
Fuel consumption per hour	9.8 lit/hr			
Average fuel consumption	0.58 lit/km			

Table 3- Fuel and Additive Consumption Information





Temperature, Pressure and Engine Speed Overview

Figure 1- Pressure distribution over the working hours

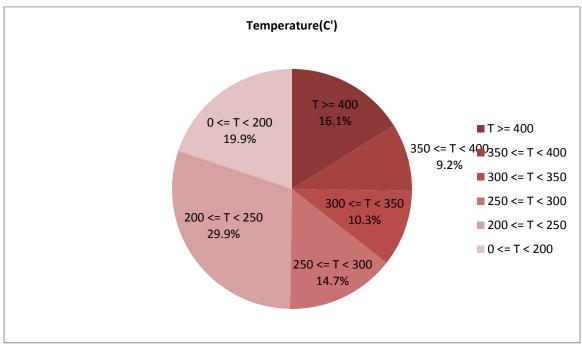


Figure 2-Temperature distribution over the working hours



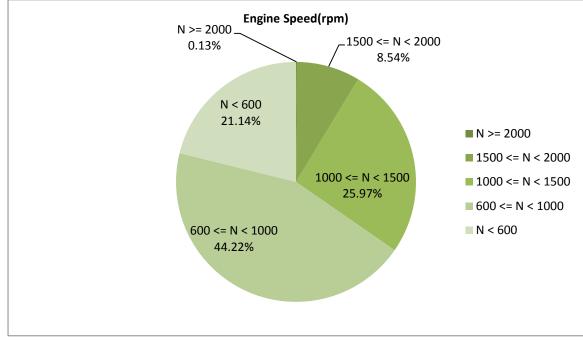


Figure 3- Engine speed distribution over the working hours

Table 4- Mean values

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
281.57	6.28	931
	0:20	561

Table 5- Mean values without idling

Mean temperature (C)	Mean pressure(mbar)	Mean engine speed(rpm)
297.91	7.96	1033

Table 6- Max-min values

Max-min temperature(C)	Max-min pressure(mbar)	Max-min engine speed(rpm)
614-50	111-0	2176-288



Detailed Pressure Analysis

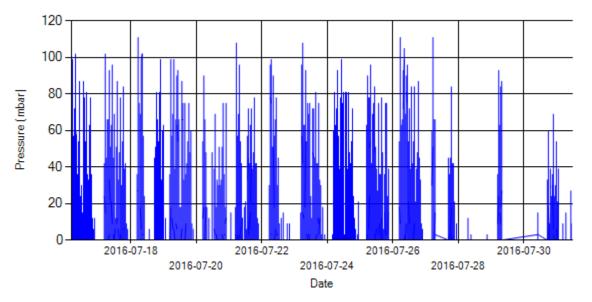


Figure 4- Pressure distribution over the period

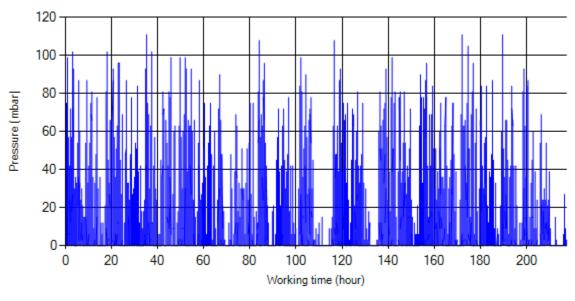


Figure 5- Pressure vs. working hours

Notice: backpressure distribution was shown into two diagrams. As obvious in figure 5, stopworking periods were eliminated and pressure was displayed along working hours.



Detailed Temperature Analysis

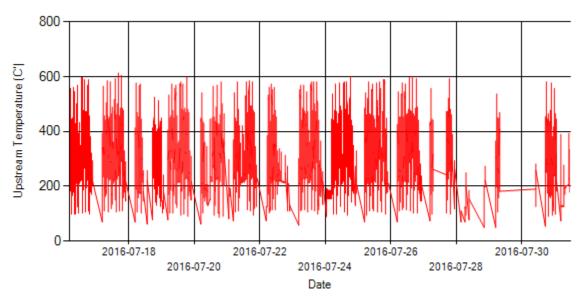


Figure 6- Temperature distribution over the period

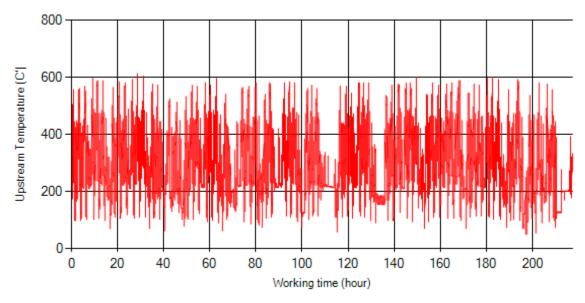


Figure 7- Temperature vs. working hours



Engine Speed Diagrams

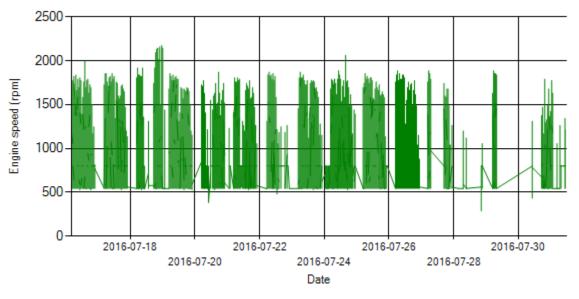


Figure 8- Engine speed distribution over the period

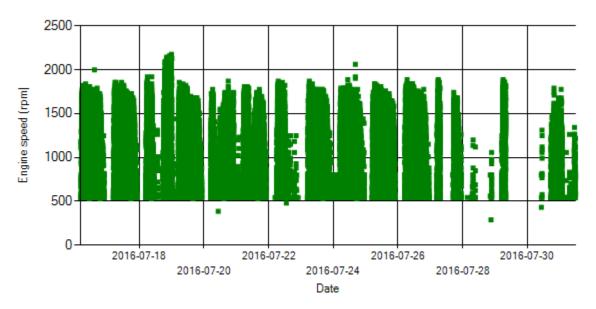


Figure 9- Engine speed diagram for calculating CPK's working days



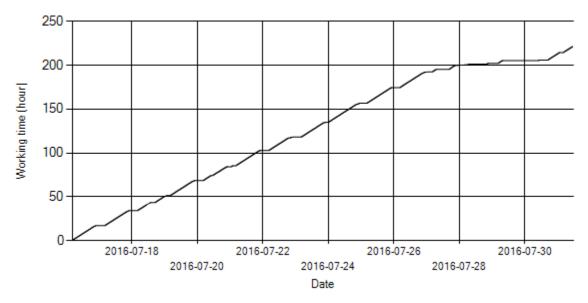
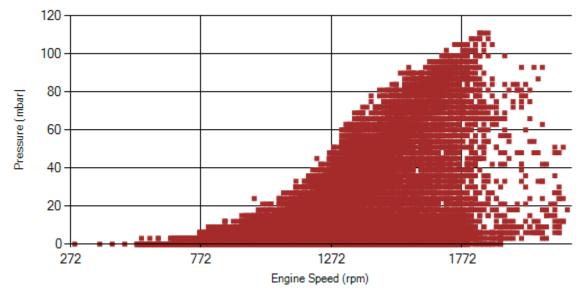


Figure 10- Time diagram for calculating CPK's working days

Notice: Data logger sampling time can be calculated from Figure 10. The lines parallel with Date axis show days without data logger data. As depicted in Figure 10 system was in motion for all days of the period.









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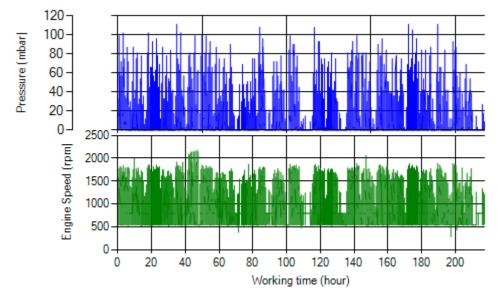


Figure 12- P, N distribution vs. working hours

Temperature-Engine Speed diagrams

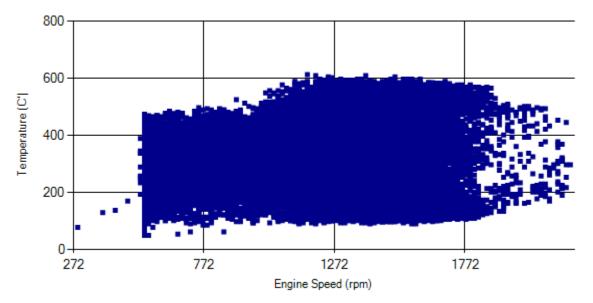


Figure 13- Temperature against engine speed



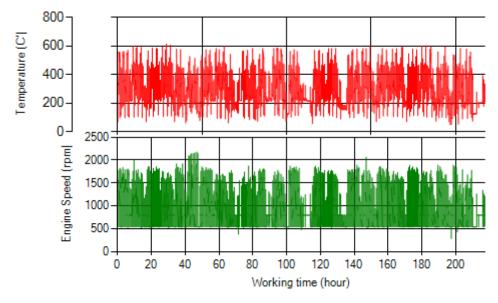


Figure 14- T, N distribution vs. working hours

Filter Operation Analysis

NOTE: system was working without DPF core on this period.